KRAMER ELECTRONICS, Ltd.
www.kramerelectronics.com

VP-441

7−Input Analog & HDMI ProScale™ Presentation Digital Scaler/Switcher with 2K Support

The VP−441 is a 7−input scaler/switcher for composite video, s−Video (Y/C), component video, computer graphics video, HDMI and unbalanced stereo audio signals. The unit scales the video up to 2K and outputs the signal to HDMI (with embedded audio), computer graphics and RGBHV video outputs (with S/PDIF and unbalanced stereo audio) simultaneously.

VP-441

FEATURES

- K-Storm™ Scaling Technology - Kramer's extremely high−performance scaling technology. High−quality 3:2 and 2:2 pull down de−interlacing and full up and down scaling of computer graphics video input signals.
- HDTV Compatible.
- HDCP Compliant - The HDCP (High Definition Content Protection) license agreement allows copy−protected data on the HDMI input to pass only to the HDMI output.
- Video Inputs - 1 composite video, 1 s−Video, 2 component video, 1 computer graphics (15−pin HD) & 2 HDMI.
- Scaled Outputs - 1 HDMI, 1 RGBHV (BNC connectors), 1 VGA (15−pin HD connector) simultaneously.
- 20 Output Resolutions - Up to WUXGA & 2048x1080.
- Companion AFV (Audio-Follow-Video) - Stereo audio for every input.
- Audio Inputs - 7 unbalanced stereo on terminal blocks each individual level controls.
- Audio Output - 1 S/PDIF (RCA connector), 1 analog stereo audio (RCA connectors) and embedded audio on the HDMI connector.
- Multi-Standard - PAL & NTSC.
- Audio Delay - 40ms, 110ms, 150ms, or disable.
- Built-in ProcAmp - Color, hue, sharpness, noise, contrast, and brightness.
- Front Panel Control - Audio mute, video blanking & freeze frame.
- Front Panel Lockout.
- Multiple Aspect Ratio Selections - Full, overscan, underscan, letterbox & panscan.
- Flexible Control Options - Front panel buttons, IR remote (included) with OSD (on−screen display), RS−232 and Ethernet.
- Worldwide Power Supply - 100−240V AC.
- Standard 19" Rack Mount Size - 1U. Rack "ears" included.

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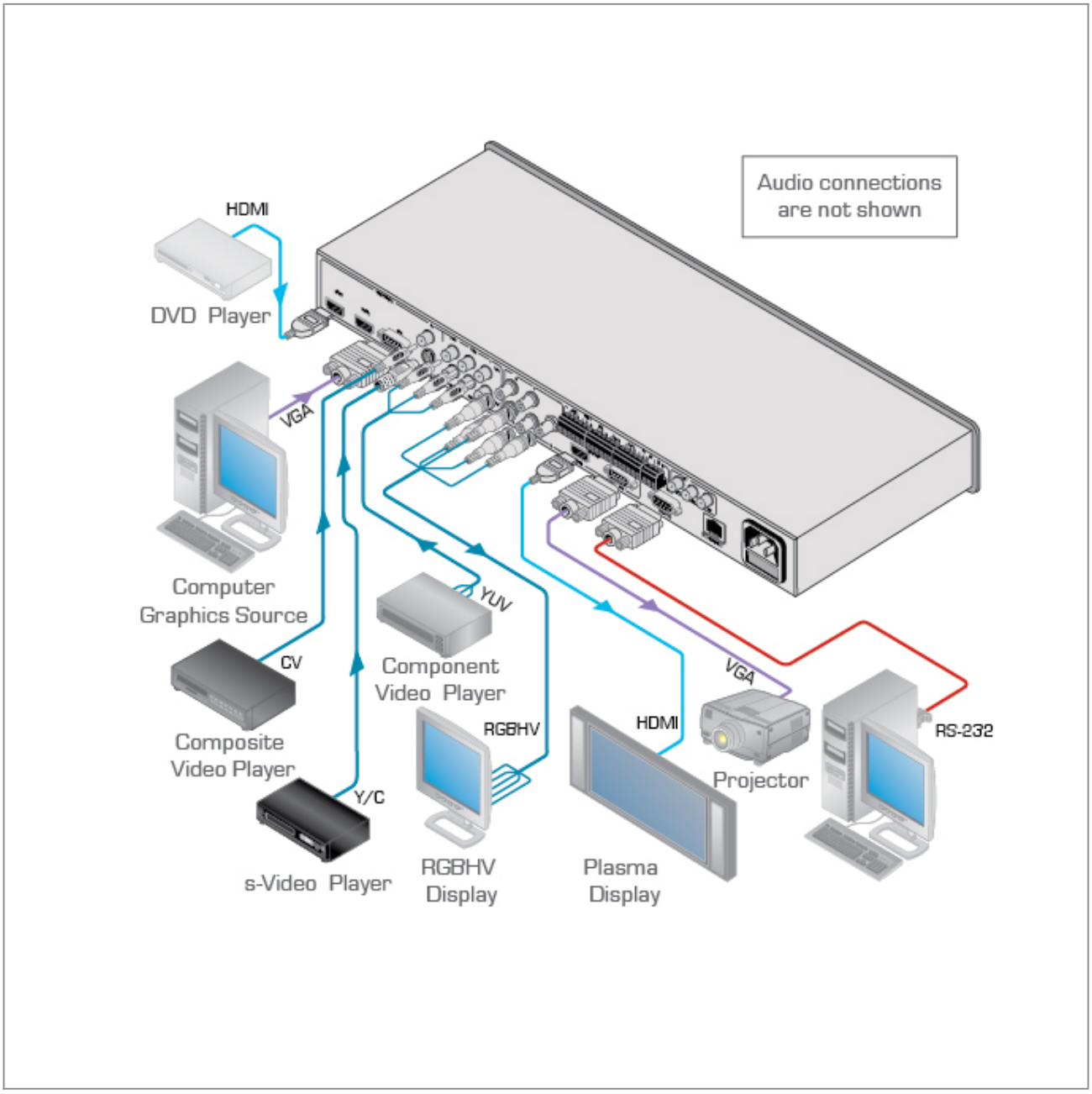
TECHNICAL SPECIFICATIONS

INPUTS:	2 HDMI connectors (HDMI, HDCP version 1.1); 1 VGA on a 15−pin HD connector; 1 composite video on an RCA connector; 1 Y/C on a 4−pin connector; 2 component video each on 3 RCA connectors; 7 unbalanced stereo audio on 3−pin terminal block connectors.
OUTPUTS:	1 RGBHV on 5 BNC connectors; 1 HDMI connector (HDMI, HDCP version 1.1); 1 VGA (RGBHV) on a 15−pin HD connector; 1 S/PDIF on an RCA connector; 1 analog stereo audio on RCA connectors.
H FREQUENCY:	15.63−90kHz.
V FREQUENCY:	50−100Hz.
RGB SYNCS:	H and V TTL separated syncs.
RGB LEVEL:	1.2Vpp max, 75Ω load.
XGA OUT LEVEL:	1.2Vpp max, 75Ω load.
S/PDIF OUT LEVEL:	0.55Vpp constant.
OUTPUT RESOLUTIONS:	Native, VGA, SVGA, XGA, SXGA, UXGA, 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, WXGA, WSXGA, WUXGA, 1280x800, 1440x900, 1400x1050, 1600x900, 2048x1080/50Hz, 2048x1080/60Hz.
OUTPUT REFRESH RATE:	60Hz for computer graphics resolutions, 50/60Hz for HDTV resolutions.
CONTROLS:	CV, Y/C, component 1, component 2, VGA, HDMI 1, HDMI 2, input selector buttons; blank, mute, freeze buttons; menu, enter, menu arrows, reset to XGA/720p, lock buttons, RS−232, IR; Ethernet.
POWER CONSUMPTION:	100−240V AC, 20VA max.
DIMENSIONS:	19" x 7" x 1U (W, H, D) rack mountable.
WEIGHT:	2.7kg (6lbs) approx.
ACCESSORIES:	Power cord, null−modem adapter, IR remote control, rack "ears".


Audio connections
are not shown
HDMI
DVD Player
VGA
Computer
Graphics Source
YUV
Component
Video Player
CV
Composite
Video Player
RGBHV
HDMI
VGA
RS-232
Projector
Y/C
s-Video Player
RGBHV
Display
Plasma
Display